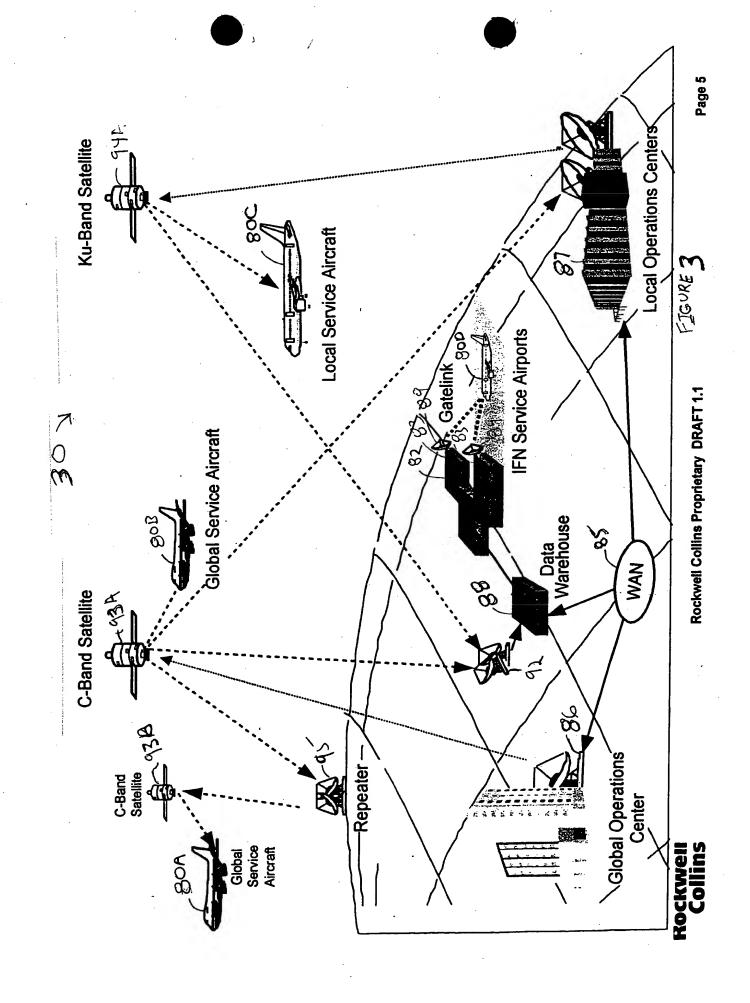
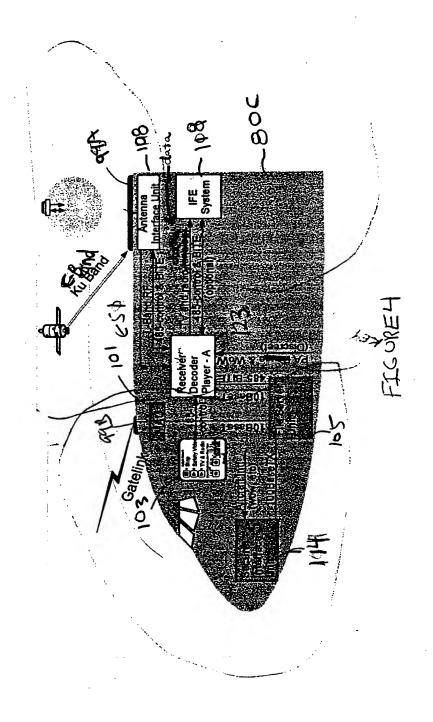
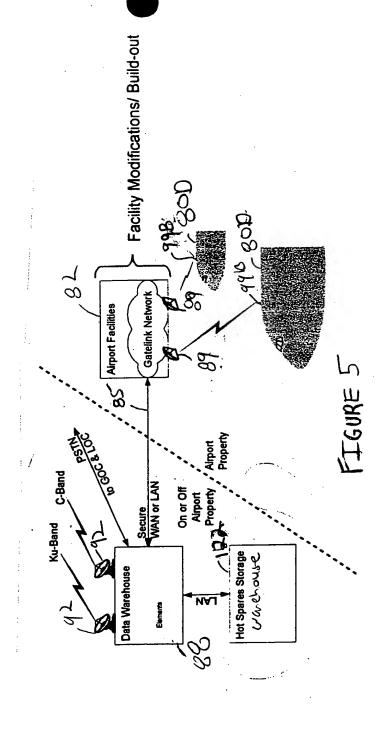
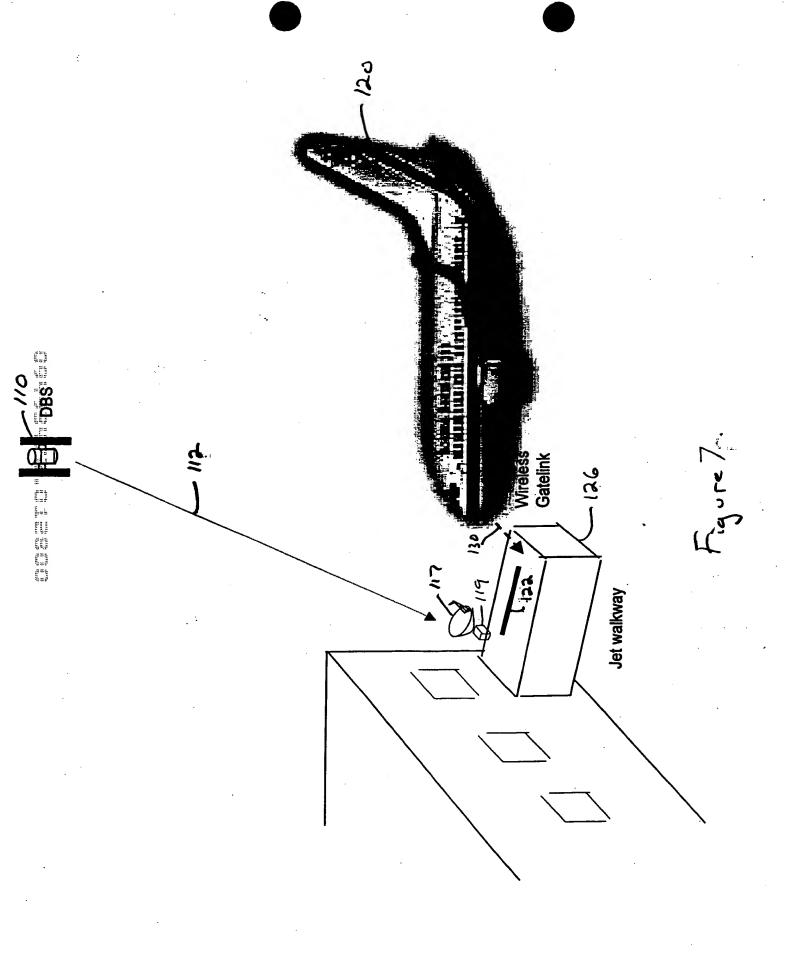


Figure

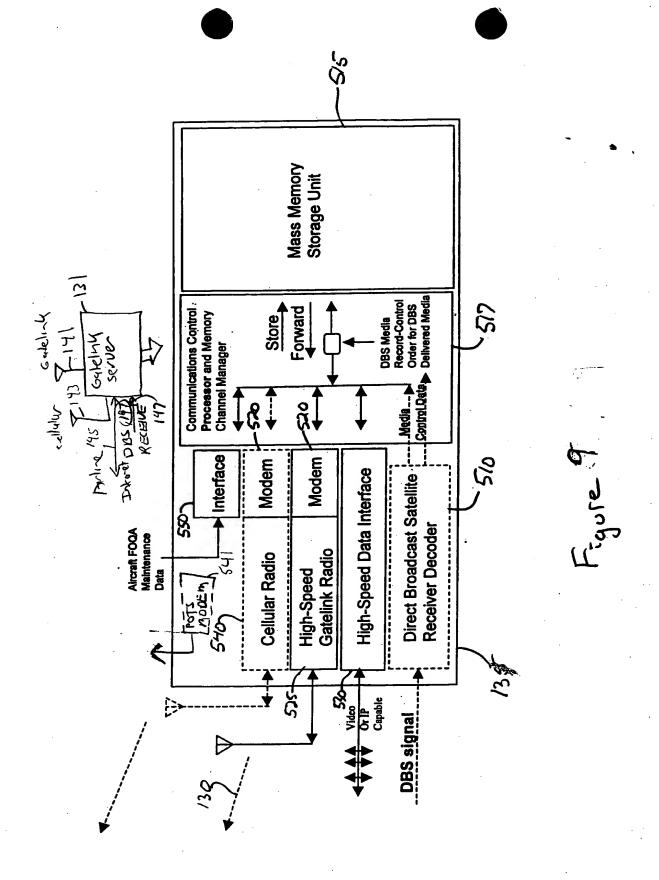


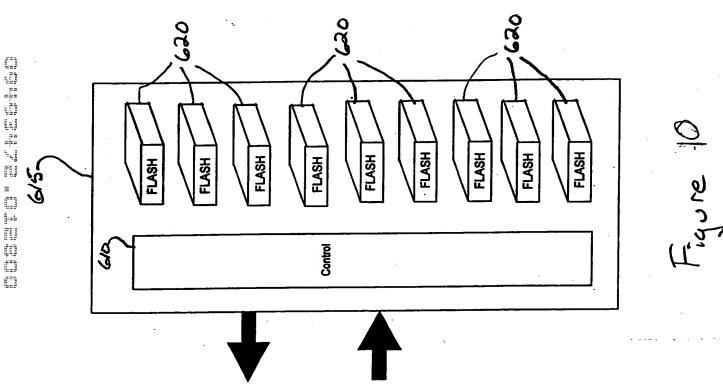


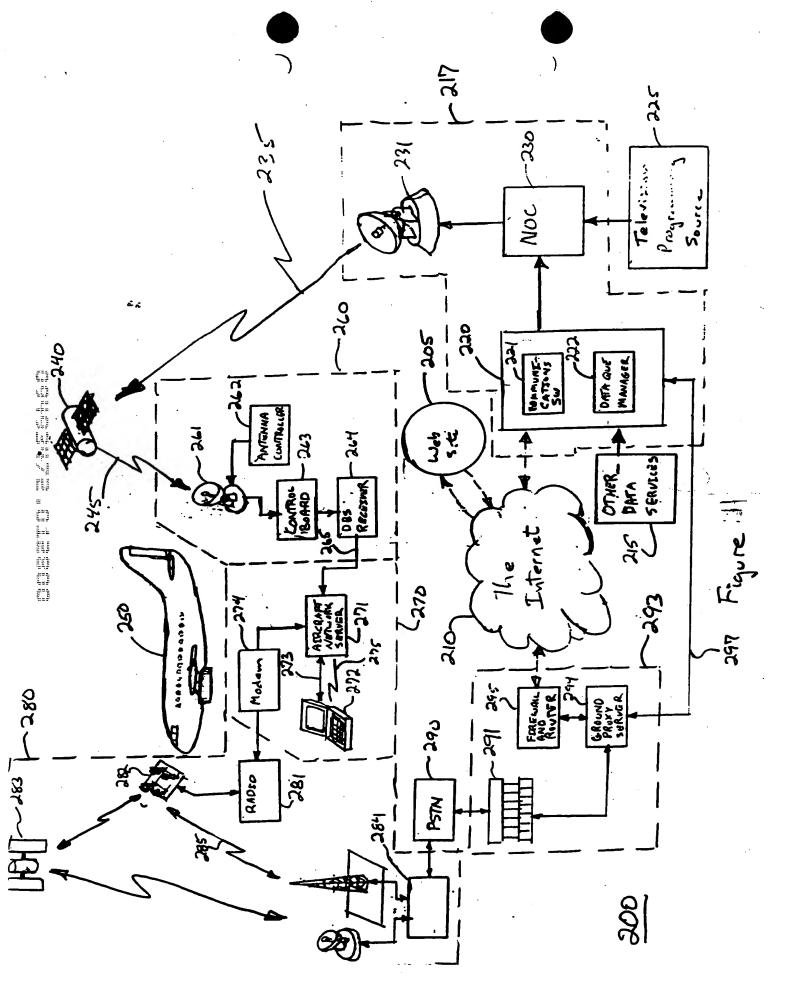




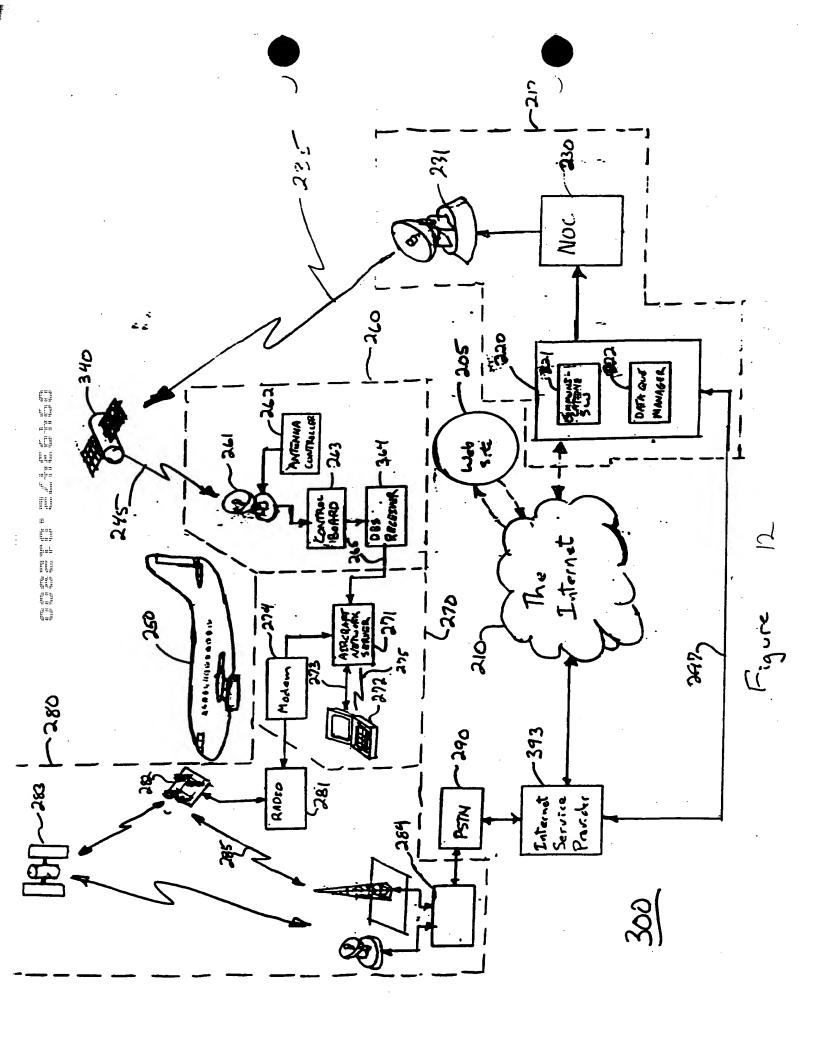
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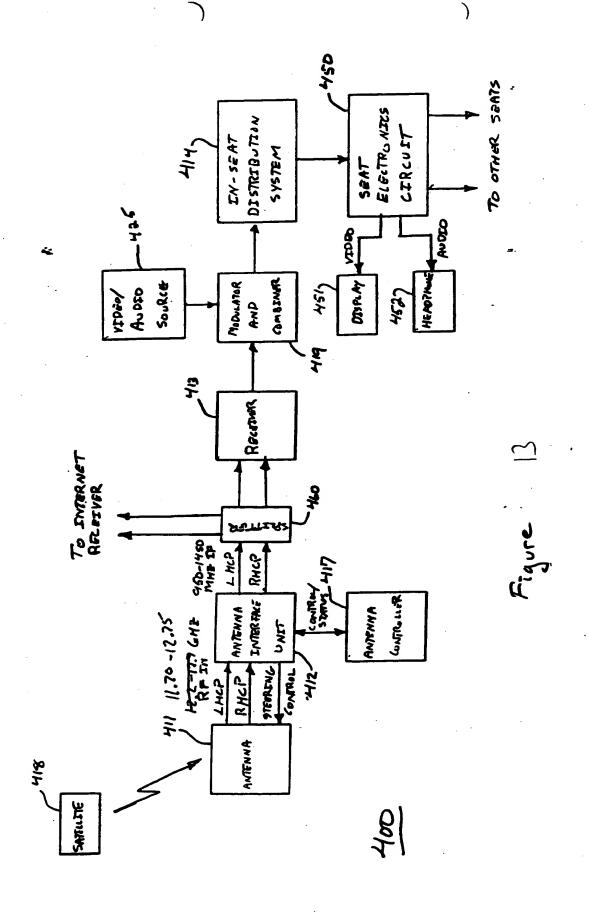






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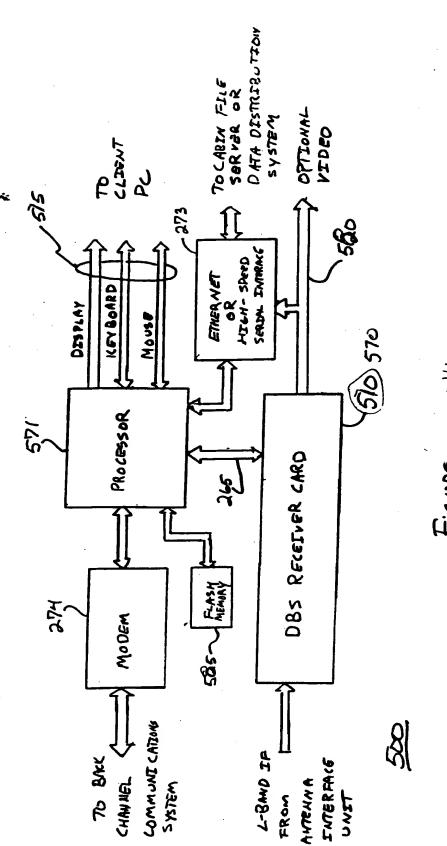


Figure. 14



High Speed DBS Data Channel for Aviation— Mobke PLATFORMS User and Order Wire Aviation / Automotive Express 90 (uses NATS or INMARSAT for back-channel) (uses NATS or INMARSAT for back-channel) Internet user - 28.8 k Internet user - 56 k Internet user

(uses NATS or INMARSAT for back-channel) DBS Gatelink Media File Server Order Wire 28.8 k - 28.8 k 4800 28.8 Voice mail -Fax -

Dynamic allocation of bandwidth between

channels (<u>priority</u>)

user channels and core data broadcasting. User channels have priority - this part may fit AgCast's competency. AgCast is also an Internet data content aggregator.

Core broadcasting content "grows and shrinks" according to user channel BW demand. Core programming may be resold to an unlimited audience in the air or on the ground.

broadcast channel (variable)

Client Pay Per View Video (priority) **EML.** Ads and Streaming Media

Core data programming

409

Airport Conditions

News / Press / Stock Market

Weather graphics

Littonweather Service Rockwel

Business & Regional Systems

- Fax to plane
 - Core data
- Full Internet
- "Off-line" Internet
- E-mail / FTP

Air Transport Systems

- Fax to plane

or AgCast (1-Megabit per second as an example)

Figure 15

Ad revenue avenue

Additional Aviation Related Content Aggregation

programming) DBS BW from Echostar and Fixed contracted (less pre-existing core

- server loading / complementing I2S Wireless airport terminal area file - Large file FTP messaging
 - Core data to I2S server
- Stocks, Weather, News

Passenger Systems - IFN IFE systems

This Figure Contains Rockwell Proprietary Information